D-Link®

VPN Firewall for Departmental

DFL-1000

Rack-mount firewall with complete virus scanning, access control, intruder protection, remote VPN connection and DMZ functions for company networks.

Network Secure VPN Firewall for Departmental

The DFL-1000 is a cost-effective departmental firewall that provides comprehensive network protection, high performance and easy installation. A hardware device that is much easier to install and more effective than software-based firewalls, the DFL-1000 offers ideal protection for Small to medium Buisnesses or corporate departments with plug-and-play connection, complete security against outside intruders, Virtual Private Network (VPN) support through data encryption and authentication, and easy administration.

Complete Security

Your office is connected to the outside world through the Internet. It is easy for hackers to analyse your databases to steal or destroy data. The DFL-1000 provides a wide range of protection against outside attacks, plus comprehensive security that includes user authentication, scheduled policies and Virtual Server Mapping. The DFL-1000 provides NAT translation of IP addresses from the internal private network to the public IP network.

Content Filtering & Virus Scanning

The DFL-1000 provides filtering of potentially malicious codes embedded in web pages to remove Active objects, Java, JavaScript and other potential threats. It provides virus scanning for all incoming and outgoing email and attachments, plus virus checking for Web plug-ins and downloaded Web contents.

Easy Installation

All you need to do is connect the network cables. To the outside world, you connect an RJ-45 plug to your DSL/cable modem, Internet gateway or router. To your office, you plug in another RJ-45 jack to your network switch or hub. The DMZ port connects to an independent hub or switch for the DMZ network. The DFL-1000 provides CPU, system memory and embedded software, all ready to run.

Access Control

Administration access can be controlled so that the DFL-1000 can be administered from the protected internal network or the external public Internet. The DFL-1000 supports an internal/External (RADIUS) database for authenticating user access to various services. It maps public IP addresses to information servers on the internal network to allow public access. It also prevents access to particular web sites, using powerful pattern matching to block access to URLs or keywords.

Scheduled Policies

Firewall policies may be scheduled for different times of the day/week/month and for one time use or recurring.

LAN-to-LAN VPN Connection

The DFL-1000 supports VPN functions including PPTP, L2TP, IPSec, ESP security in tunnel mode, LAN to-LAN and mobile remote access.

Hardware Acceleration

The DFL-1000 uses a special design ASIC to perform VPN encryption and decryption. It off-loads CPU loading through hardware-based acceleration.

Management

The DFL-1000 supports web-based management using a secure SSL connection from a remote terminal either on the internal corporate network or even from an external remote site. The DFL-1000 can also be administered on-site using its RS-232 serial connection.

Key Features

- *Easy to install, easy to manage*
- *Web-based management and software updated via browser*
- *Intruders prevention through MAC Address binding with IP Addresses*
- *Secure system management via VPN Tunnel on any interface*
- *Triple-DES data encryption*
- *Anti-virus scanning*

DFL-1000

Technical Specifications

VPN Firewall for Departmental

Hardware Specifications

Processor
300MHz

System Memory
On board 256MB

Flash Memory
64MB CompactFlash Card

Network Interface
3 10/100Mbps ports (1 Internal, 1 External, 1 DMZ)

LED Indicators
- Power
- Status
- Interface link and activity

Software Specifications

Security Feature:
- **Firewall:** Stateful Packet Inspection (SPI) to Prevent Denial of Service (DoS) attacks (Syn flood, ICMP flood, UDP flood, "ping of death", IP spoofing, land attack, tear drop attack, IP address sweep attack, Win Nuke attack), Intrusion Detection System (IDS) including logging, reporting and e-mail alerts, address, service and protocol, Web URL content filtering.
- **VPN Functionality:** One hundred dedicated VPN tunnels, Manual key and IKE Security Association (SA) assignment, 56-bit (DES) or 168-bit (3DES) IPsec encryption algorithm, MD5 or SHA-1 authentication algorithm, pre-shared key, perfect forward secrecy (Diffie-Helman and Oakley client support), key life and IKE lifetime time settings, prevent replay attack, remote access VPN (client-to-Site), site-to-site VPN.
- **Mode of Operation:** Network Address Translation (NAT), static routing, unrestricted users per port.

Protocol Support:
- **Network:** IP routing, TCP/IP, UDP, ICMP, PPPoE
- **IP addressing:** DHCP (client and server)
- **Routing:** RIP v1, RIP v2 (Static Routing, Dynmic Routing)
- **VPN/ Security:** IPSec (ESP), MD5, SHA-1, DES, 3DES, IKE, PPTP, L2PT

RFC Support:

- PPTP client and server	(RFC 2637)
- IPSec tunnel mode	(RFC 2401)
- HMAC-MD5-96	(RFC 2403)
- HMAC-SHA1-96	(RFC 2404)
- Encapsulation Security Payload Protocol	(RFC 2406)
- DHCP server	(RFC 2131)
- DHCP client	(RFC 2131)
- TFTP client	(RFC 1350)
- IP routing (RIP1, RIP2)	(RFC 2453)
- NAT (many-to-one)	(RFC 1631)
- PPPoE	(RFC 2516)

Services
- ftp
- http
- NAT

Authentication
- HMAC MD5 or HMAC SHA-1 Authentication/data integrity

Key Exchange
- Automatic IKE based on Pre-Shared Key

Attack Protection Provided
- IP Source Routing
- IP Spoofing
- SYN flood attack
- ICMP flood
- UDP flood
- Land attack
- Address sweep attack
- Tear drop attack
- Winnuke attack
- Port Scan attack
- Ping of Death

Dedicated VPN Tunnels
100

Concurrent Sessions
10,000

User Authentication Support
RADIUS external database

Physical & Environmental

Power Input
100 - 240V internal switching power supply

Power Consumption
11 Watts max

Dimensions
441 x 250 x 44 mm (standard rack-mount width, 1 U height)

Operating Temperature
0℃ ~ 45℃

Storage Temperature
0℃ ~ 60℃

Humidity
5% ~ 95%, non-condensing

EMI Certification
- FCC Class A
- CE Class A
- BSMI Class A
- C-Tick

LISTED ITE E141136 66F9

ACN 052 202 838

Ordering Information

Firewall With VPN & DMZ port

DFL-1000 3 10/100Mbps ports

For country-specific power cord, please specify one of the following after the model number:

/U	Includes no power cord
/A	Includes an American standard power cord
/BE	Includes both EU and U.K. standard power cords
/N	Includes an Australian standard power cord
/E	Includes an EU standard power cord
/B	Includes an U.K. standard power cord
/CN	Includes an Australian standard power cord

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D-Link Corp.	TEL: 886-2-2916-1600	FAX: 886-2-2914-6299	www.dlink.com.tw

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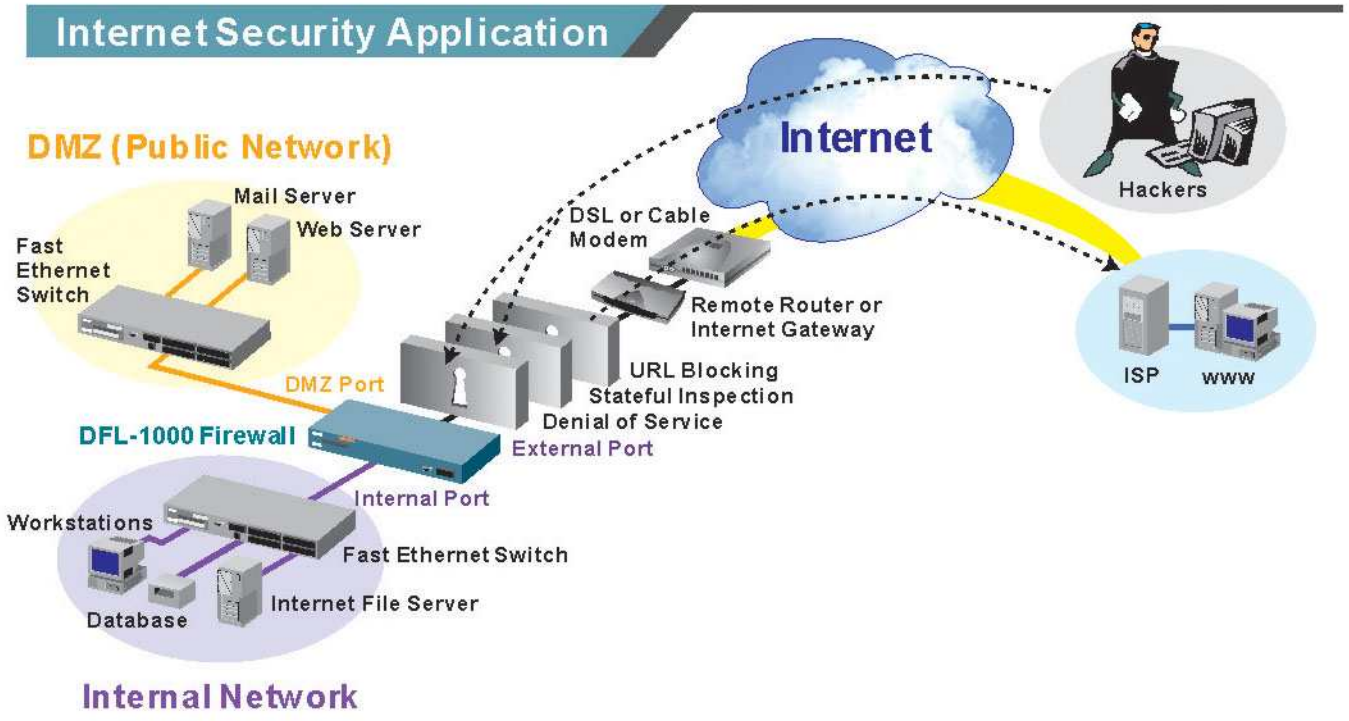
Internet Security Application



Virtual Private Network